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TECHNOLOGY CENTER 2800

Re Patent Application of

GÖTTL, M. et al.

Atty. Ref.: 265-106

Serial No. 10/049,809

Group: 2821

Filed: February 19, 2002

Examiner:

For: HIGH-FREQUENCY PHASE SHIFTER UNIT

* * * * *

February 6, 2003

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

In accordance with Rule 97, the undersigned attorney submits the documents listed on the attached forms PTO-1449. A copy of each document is enclosed.

The Examiner is requested to initial the attached forms PTO-1449 and to return a copy to the undersigned as an indication that the attached documents have been considered and made of record in this case.

Respectfully submitted,

NIXON & VANDERHYE P.C.

By: *Robert W. Faris*

Robert W. Faris
Reg. No. 31,352

RWF:ejs
1100 North Glebe Road, 8th Floor
Arlington, VA 22201-4714
Telephone: (703) 816-4000
Facsimile: (703) 816-4100

**INFORMATION DISCLOSURE
CITATION**

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GOTTL et al.

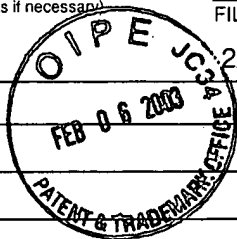
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2/19/2002

2821



U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	2,041,600	05/1936	Friis			
	2,432,134	12/1947	Bagnall			
	2,540,696	02/1951	Smith, Jr.			
	2,596,966	05/1952	Lindsay, Jr.			
	2,648,000	08/1953	White			
	2,773,254	12/1956	Engelmann			
	2,836,814	05/1958	Nail			
	2,968,808	01/1961	Russell			
	3,032,759	05/1962	Ashby			
	3,032,763	05/1962	Sletten			
	3,969,729	07/1976	Nemit			
	4,129,872	12/1978	Toman			
	4,241,352	12/1980	Alspaugh et al.			
	4,427,984	01/1984	Anderson			
	4,446,463	05/1984	Irzinski			
	4,532,518	07/1985	Gaglione et al.			
	4,564,824	01/1986	Boyd, Jr.			
	4,570,134	02/1986	Woodward			
	4,575,697	03/1986	Rao et al.			
	4,602,227	07/1986	Clark et al.			
	4,616,195	10/1986	Ward et al.			
	4,635,062	01/1987	Bierig et al.			
	4,652,887	03/1987	Cresswell			
	4,714,930	12/1987	Winter et al.			
	4,717,918	01/1988	Finken			
	4,755,778	07/1988	Chapell			
	4,768,001	08/1988	Chan-Son-Lint et al.			
	4,788,515	11/1988	Wong et al.			
	4,791,428	12/1988	Anderson			
	4,804,899	02/1989	Wurdack et al.			
	4,814,774	03/1989	Herczfeld			
	4,821,596	04/1989	Eklund			
	4,843,355	06/1989	Knorr			
	4,849,763	07/1989	DuFort			
	5,162,803	11/1992	Chen			
	5,181,042	01/1993	Kaise et al.			
	5,184,140	02/1993	Hariu et al.			
	5,214,364	05/1993	Perdue et al.			
	5,281,974	01/1994	Kuramoto et al.			
	5,440,318	08/1995	Butland et al.			

*Examiner

Date Considered

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GOTTL et al.

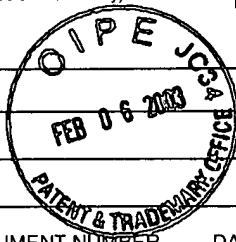
FILING DATE

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2821

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,488,737	01/1996	Harbin et al.			
	5,512,914	04/1996	Hadzoglou et al.			
	5,551,060	08/1996	Fujii et al.			
	5,724,593	03/1998	Hargrave, III et al.			
	5,798,675	08/1998	Drach			
	5,801,600	09/1998	Butland et al.			
	5,805,996	09/1998	Salmela			
	5,818,385	10/1998	Bartholomew			
	5,905,462	05/1999	Hampel et al.			
	5,983,071	11/1999	Crosby et al			
	6,078,824	06/2000	SOGO			
	6,131,082	10/2000	Hargrave, III et al.			
	6,188,373	02/2001	Martek			
	6,278,969	08/2001	King et al.			
	6,345,243	02/2002	Clark			
	2002/0135530A1	09/2002	Heinz et al.			
	2002/0149528A1	10/2002	Heinz et al.			
	2002/0140619A1	10/2002	Heinz et al.			
	2002/0186172a1	12/2002	Heinz et al.			

FOREIGN PATENT DOCUMENTS

POWER OF ATTORNEY DOCUMENTS							TRANSLATION	
DOCUMENT			DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
		933874	05/1993	AU				
	/	9341625	06/1993	AU				
		9480057	10/1994	AU				
	/	EP0106438	04/1984	EP				
	/	EP0137562A2	04/1985	EP				
	/	EP0241153A2	06/1987	EP				
	/	EP0357085	03/1990					
	/	EP0357165A2	03/1990	EP				
	/	EP0398637A2	11/1990	EP				
	/	EP0423512A2	04/1991	EP				
	/	EP0588179A1	03/1994	EP				
	/	EP0618639	03/1994	EP				
	/	EP0595726A1	05/1994	EP				

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Form PTO-FB-A820 (Also PTO-1449)

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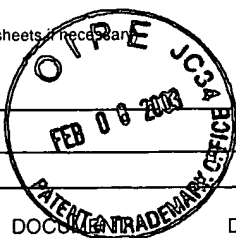
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DOCUMENT

COUNTRY

CLASS

SUBCLASS

TRANSLATION	
YES	NO

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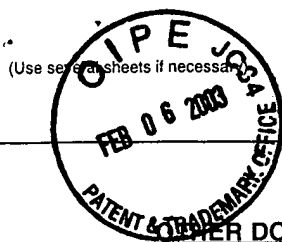
GOTTL et al.

FILING DATE

GROUP

2/19/2002

2821



(Use several sheets if necessary)

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

	Strickland, "Microstrip Base Station Antennas for Cellular Communications" <u>Proceedings</u> , pp. 166-169 (IEEE CH2944 1991).	✓
	Faruque, "Cellular Control Channel Capacity: Evaluation and Enhancement," pp. 400-404 (IEEE 1992)	✓
	"Electrically Tilted Panel Antennas," IMCE Engineering Meeting, Anaheim, pp. 1-10 (25 March 1993)	✓
	"Second Generation Variable Electrical Tilt Panel Antenna," CTIA Technical Meeting, San Diego, pp 1-10 (1-4 March 1994)	✓
	"Ongoing Development of Electrically Tilted Panels," MTS Engineering Meeting, Dallas (25-28 March 1996)	✓
	Benner, "Effects of Antenna Height, Antenna Gain, and Pattern Downtilting for Cellular Mobile Radio," IEEE Transactions on Vehicular Technology, Vol. 45, No. 2 (May 1996)	✓
	Arowojulu et al., "Controlling the Coverage Area of a Microcell," University of Liverpool, UK, pp. 72-75 (1993)	✓
	"Cellular Panel Antenna," Radio Frequency Systems Pty. Limited, Doc. No. 26900E000, Issue 1, 6 pages	✓
	Press release, "Announcing the PerforMax™ Dual Polarized Wideband Variable Electrical Downtilt Antenna for 3G Rollouts," Orlando Park, IL (Andrew Corp. 8/6/2001)	✓
	New product announcement, "PerforMax™ Dual Polarized wideband variable electrical downtilt antenna for 3G rollouts," (Andrew Corp. 2001)	✓
	Press release, Andrew Corp., "Andrews Acquires Deltecs Teletilt™ Business," Orlando Park, IL (7/20/2001)	✓
	Press release, Andrew Corp., "Andrew and Argus Announce Licensing Agreement," Orlando Park, IL (10/19/2001)	✓
	Wilson, "Electrical Downtilt Through Beam-Steering Versus Mechanical Downtilt," Vehicular Technology Society 42nd VTS Conference Frontiers of Technology, Volume 1 of 2, pages 1-4 (5/18/1992)	✓
	Yamada, "Base and Mobile Station Antennas for Land Mobile Radio Systems," IEICE TRANSACTIONS, VOL. E 74, NO. 6 (6/1991)	✓
	Lovis, "Aufbau Und Strahlungseigenschaften Einer Elektronisch Gesteuerten Sekundarradarantenne," (NTG Technical Reports Volumne 57, Papers of the NTG Conference (March 8 to 11, 1977 Bad Neiheim) with translation	✓
	* Specifications: Mobile Telephone and Panel Array (MPTA) Antenna, VARITILT Continuously Variable Electrical Downtilt Models; Deltec New Zealand Limited	
	* Heath, B., "Design Specification for Premium Antenna with EDT and AS" (1993)	
	* Friis, <u>The Bell System Technical Journal</u> , XXVI:218-316, "Radar Antennas" (1947)	
	* Bacon, G.E., "Variable-Elevation Beam-Arial Systems for 1 1/2 Metres," <u>Journal I.E.E.</u> , 93:539-544 (1946)	
	* Kummer, W.H., "Electromechanical Devices," <u>Microwave Scanning Antennas</u> , III:48-130	
	* Mills et al., "The Sydney University Cross-type Radio Telescope," <u>Proceedings of the I.R.E. Australia</u> , pp 156-165 (1963)	
	Yamada et al., "Low Sidelobe and Tilted Beam Base-Station Antennas for Smaller-Cell Systems," NTT Radio RadioCommunication Systems Laboratories and Nipon Telegraph and Telephone Corporation	

* Document not available.

*Examiner

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